

**VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION**

Date 2/16/2010

Contract ID 091120-701 Job No. J7P2163
County ST. CLAIR 13 Original Bld Cost \$ 2,633,154.49
Contractor APAC-MISSOURI, INC. By DAVID B. TAG, P.E.
Designed By APAC-MISSOURI, INC. Phone (573) 449-0886
VECP# 10-16 (to be completed by C.O.) VECF or VECF/PDU

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

The current plan is to remove an existing drop inlet, connect the temporary drainage to the existing cross-road pipe with a tee, and after construction remove the temporary pipes and install a new drop inlet. This proposal is to use the existing drop inlet in place and connect the temporary drainage pipe with a tee through a steel plate fabricated in place of the grate and bearing plate. The advantages are reduced construction time, reduced construction cost, and using drainage in place that already exists. The disadvantages are decreased slope on the temporary drainage.

2. Estimate of reduction in construction costs. \$ 1,515.71 A detailed summary is attached.

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

APAC foresees no costs to maintenance or operations. MoDOT Maintenance may take possession of the temporary drainage pipe at the end of the project for half of the cost of new pipe, approx. \$1,780 if desired.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

February 16, 2010

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

March 15, 2009

(date)

Delay fabrication of steel plate for modified drainage

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

None

(date and/or dates)

** Portion Below This Line To Be Filled Out by MoDOT **

Comments: After field review of this site, drainage concerns for this crossover are not expected to be an issue. No work will be required to improve the drainage. I do not recommend this proposal.

[Signature] 3-2-10
Submitted By Resident Engineer Date

Comments: I concur with rejecting this proposal.

Approval Recommended
 Rejection Recommended

Bucky Bantz 3-3-2010
District Engineer Date

Comments:

Approval Recommended
 Rejection Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects

Date

Comments: REJECTED PER DISTRICT RECOMMENDATION
ITEM OF WORK WAS FOUND TO BE UNNECESSARY

Approval
 Rejection

David A. Cooper 3-16-10
State Construction and Materials Engineer Date

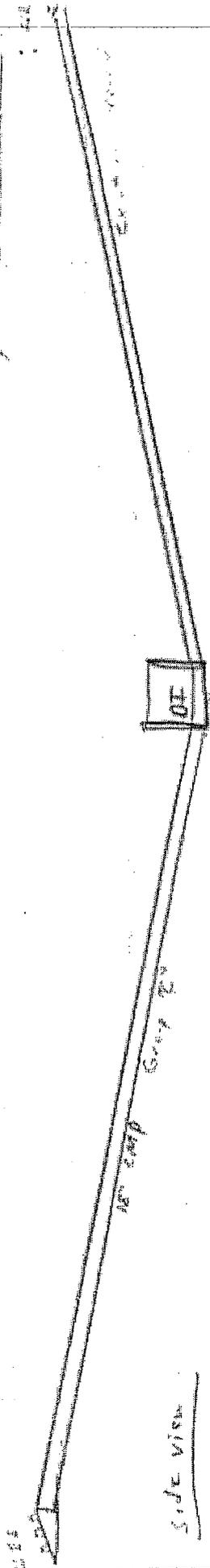
Route 13, St. Clair Co., - J7P2163 - VE Proposal Summary

Items to be affected							
Item #	Description	Qty. affected	Unit	Cost	New Cost	Saved	What will be saved
30	Class 3 Excavation	124	CY	\$ 9.93		\$ 1,231.32	No excavation of DI required
390	Precast DI 5X3'	6	FT	\$ 291.65		\$ 1,749.90	New DI not required
410	18" Tee Connection	1	LS	\$ 1,400.19		\$ 1,400.19	Connection to X-road pipe not required
5XXX	Steel Plate for Grate/Bearing	1	EA		\$ 750.00	\$ (750.00)	Fab. Steel Plate for DI Grate
5XXX	Temp. 4' Marking Tape Yellow	1	EA		\$ 600.00	\$ (600.00)	Material Cost for 18" Tee Connection
				TOTAL		\$ 3,031.41	

VE SPLIT \$ 1,515.71

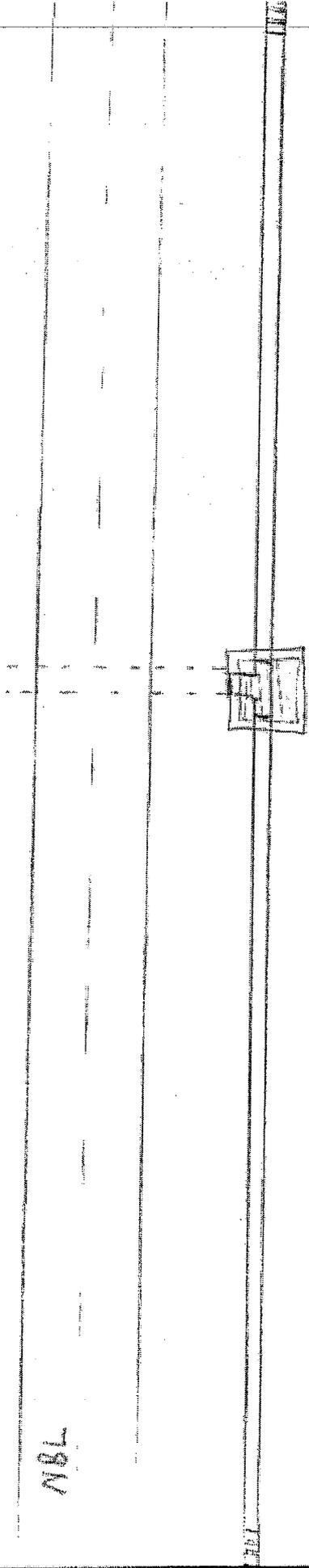
Current design

existing station



side view

- 4" to tie into existing structure
- remove OI + saw grate
- replace OI with new one at end of b

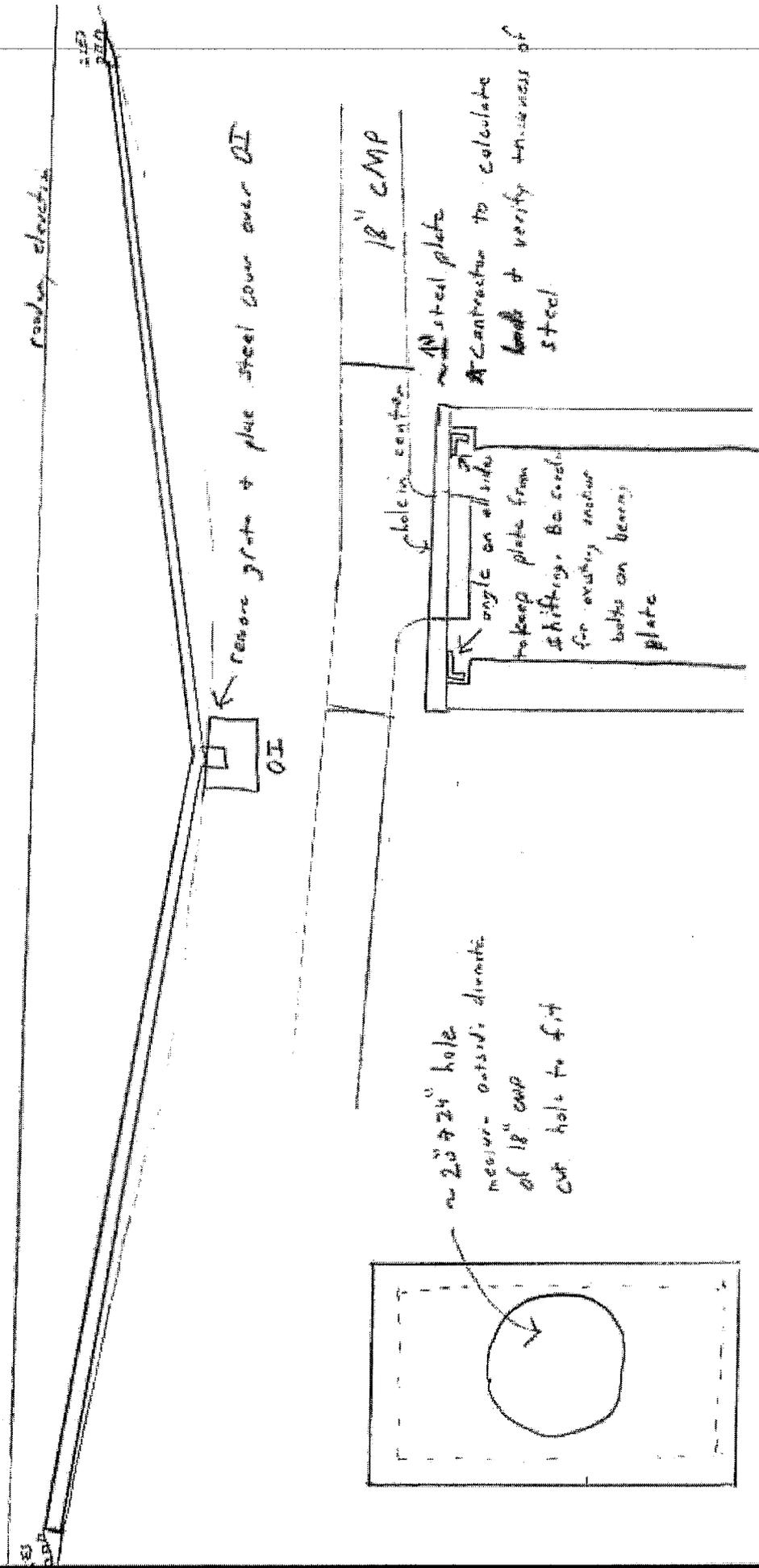


NBL

SBL

plan view

new design



VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- Bridge/Structure/Footings
- Drainage Structures (RCP, RCB, CMP's, ect.)
- TCP/MOT
- Paving (PCCP, ect.)
- Grading/MSE Walls
- Signal/Lighting/ITS
- Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

_____ Use exiting drop inlet in place in lieu of planned temporary construction.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

_____ Scan proposal only.
